

Contents

Marine Chemistry, Vol. 32 (1991)

Research Papers

Form of dissolved silicon in seawater

K. Isshiki (Kochi, Japan), Y. Sohrin and E. Nakayama (Kyoto, Japan) 1

Seasonal variations of aliphatic hydrocarbons in *Sardina pilchardus* (Walb.) (Teleostei: Clupeidae) tissues

G.P. Serrazanetti, L.S. Conte, P. Cortesi, C. Totti and R. Viviani (Bologna, Italy) 9

Studies of dissolved carbohydrates (or carbohydrate-like substances) in an estuarine environment

W. Senior and L. Chevolot (Brest, France) 19

Behaviour of copper and cadmium during a phytoplankton bloom: a mesocosm experiment

D.E. Slauenwhite and P.J. Wangersky (Halifax, N.S., Canada) 37

Fluxes and transport of anthropogenic and natural polycyclic aromatic hydrocarbons in the western Mediterranean Sea

E. Lipiatou and A. Saliot (Paris, France) 51

Chemistry of suspended particles in the southern Baltic Sea

J. Ingri, R. Löfvendahl and K. Boström (Stockholm, Sweden) 73

Dissolved oxygen in highly saline sodium chloride solutions and in the Dead Sea — measurements of its concentration and isotopic composition

M. Shatkay (Rehovot, Israel) 89

Announcement 101

Erratum 103

Guide for Authors 105

Editorial v

Research Papers

Circulation and mixing in stratified estuaries

K.R. Dyer (Plymouth, Gt. Britain) 111

Exchange of water in a stratified estuary with an application to Krka (Adriatic Sea)

T. Legović (Zagreb, Yugoslavia) 121

High-frequency oscillations observed in the Krka Estuary

M. Orlić, N. Limić, Z. Pasarić (Zagreb, Yugoslavia), M. Ferenčak, Z. Gržetić and A. Smirčić (Split, Yugoslavia) 137

Effects of wind on a stratified estuary

T. Legović (Zagreb, Yugoslavia), Z. Gržetić and A. Smirčić (Split, Yugoslavia) 153

Subsurface temperature maximum in stratified estuary T. Legović, V. Žutić (Zagreb, Yugoslavia) and Z. Gržetić (Split, Yugoslavia)	163
Scavenging of particulate matter in coastal waters H. Weiss, K.K. Bertine (San Diego, CA, U.S.A.), M. Koide and E.D. Goldberg (La Jolla, CA, U.S.A.)	171
Trace metal-nutrient relationships in estuaries H. Windom, J. Byrd, R. Smith, Jr. (Savannah, GA, U.S.A.), M. Hungspreugs, S. Dharmvanij, W. Thumtrakul (Bangkok, Thailand) and P. Yeats (Dartmouth, N.S., Canada)	177
Variations in the chemical lability of iron in estuarine, coastal and shelf waters and its implications for phytoplankton M.L. Wells and L.M. Mayer (Walpole, ME, U.S.A.)	195
Trace metal behaviour in a highly stratified Mediterranean estuary: the Krka (Yugoslavia) F. Elbaz-Poulichet, D.M. Guan and J.-M. Martin (Montrouge, France)	211
Trace metal adsorption on inorganic solid phases under estuarine conditions H. Bilinski, S. Kozar, M. Plavšić, Z. Kwokal and M. Branica (Zagreb, Yugoslavia)	225
Surface properties of suspended solids in stratified estuaries (Krka River estuary and Rhône River delta) J. Bišćan, M. Juračić (Zagreb, Yugoslavia), I. Rhebergen (Wageningen, The Netherlands), J.-M. Martin (Montrouge, France) and J.-M. Mouchel (Noisy-le-Grand, France)	235
Estuarine transformation of organic matter: single coalescence events of estuarine surface active particles V. Svetličić, V. Žutić and J. Tomaić (Zagreb, Yugoslavia)	253
Carbon inputs and biogeochemical processes at the halocline in a stratified estuary: Krka River, Yugoslavia G. Cauwet (Perpignan, France)	269
Distribution of algal chlorophyll and carotenoid pigments in a stratified estuary: the Krka River, Adriatic Sea V. Denant, A. Saliot (Paris, France) and R.F.C. Mantoura (Plymouth, Gt. Britain)	285
Fatty acids as biomarkers of planktonic inputs in the stratified estuary of the Krka River, Adriatic Sea: relationship with pigments P. Scribe, J. Fillaux, J. Laureillard, V. Denant and A. Saliot (Paris, France)	299
Nutrient enrichment and phytoplankton response in an Adriatic karstic estuary Z. Gržetić (Split, Yugoslavia), R. Precali, D. Degobbi (Rovinj, Yugoslavia) and A. Škrivanić (Zagreb, Yugoslavia)	313
Bacterial abundance and activity in the highly stratified estuary of the Krka River D. Fuks, M. Devescovi, R. Precali, (Rovinj, Yugoslavia), N. Krstulović and M. Šolić (Split, Yugoslavia)	333
Hypoxia in a pristine stratified estuary (Krka, Adriatic Sea) T. Legović, D. Petricoli and V. Žutić (Zagreb, Yugoslavia)	347
Subsurface <i>Gonyaulax polyedra</i> bloom in a stratified estuary T. Legović, D. Petricoli, V. Žutić (Zagreb, Yugoslavia) and D. Viličić (Dubrovnik, Yugoslavia)	361
Development of the red tide in the Kaštela Bay (Adriatic Sea) I. Marasović, M. Gačić, V. Kovačević, N. Krstulović, G. Kušpilić, T. Pucher-Petković, N. Odžak and M. Šolić (Split, Yugoslavia)	375

(Contents, continued)

Nutrient enrichment and phytoplankton response in an Adriatic karstic estuary Z. Gržetić (Split, Yugoslavia), R. Precali, D. Degobbi (Rovinj, Yugoslavia) and A. Škrivanić (Zagreb, Yugoslavia)	313
Bacterial abundance and activity in the highly stratified estuary of the Krka River D. Fuks, M. Devescovi, R. Precali, (Rovinj, Yugoslavia), N. Krstulović and M. Šolić (Split, Yugoslavia)	333
Hypoxia in a pristine stratified estuary (Krka, Adriatic Sea) T. Legović, D. Petricoli and V. Žutić (Zagreb, Yugoslavia)	347
Subsurface <i>Gonyaulax polyedra</i> bloom in a stratified estuary T. Legović, D. Petricoli, V. Žutić (Zagreb, Yugoslavia) and D. Viličić (Dubrovnik, Yugoslavia)	361
Development of the red tide in the Kaštela Bay (Adriatic Sea) I. Marasović, M. Gačić, V. Kovačević, N. Krstulović, G. Kušpilić, T. Pucher-Petković, N. Odžak and M. Šolić (Split, Yugoslavia)	375
Contents of Volume 32	389

FORTHCOMING PAPERS

Bromoform in the Nansen Basin in the Arctic Ocean (M. Krysell)	
Determining resolution for $^{87}\text{Sr}/^{86}\text{Sr}$ profiles in marine sediments (J.L. Carroll and I. Lerche)	
Copper complexation during a bloom of <i>Gymnodinium sanguineum</i> Hirasaka (Dinophyceae) measured by ASV (M.G. Robinson and L.N. Brown)	